

O B S. XVII.

If a Bubble be blown with Water first made tenacious by dissolving a little Soap in it, 'tis a common Observation, that after a while it will appear tinged with a great variety of Colours. To defend these Bubbles from being agitated by the external Air (whereby their Colours are irregularly moved one among another, so that no accurate Observation can be made of them,) as soon as I had blown any of them I covered it with a clear Glass, and by that means its Colours emerged in a very regular order, like so many concentrick Rings incompassing the top of the Bubble. And as the Bubble grew thinner by the continual subsiding of the Water, these Rings dilated slowly and over-spread the whole Bubble, descending in order to the bottom of it, where they vanished successively. In the mean while, after all the Colours were emerged at the top, there grew in the Center of the Rings a small round black Spot, like that in the first Observation, which continually dilated itself till it became sometimes more than $\frac{1}{2}$ or $\frac{3}{4}$ of an Inch in breadth before the Bubble broke. At first I thought there had been no Light reflected from the Water in that place, but observing it more curiously, I saw within it several smaller round Spots, which appeared much blacker and darker than the rest, whereby I knew that there was some reflexion at the other places which were not so dark as those Spots. And by further tryal I found that I could see the Images of some things (as of a Candle or the Sun) very faintly reflected, not only from the great black Spot, but also

also from the little
in it.

Besides the above
often appear finally
ascending up and
of some inequality
And sometimes finally
would ascend up
the Bubble, and

Because the Colours
tended and lively
two Glasses, and
shall here give you
as they were observed
the Skies when of
distance was placed
these, red, blue;
red, yellow, green;
blue, violet; red,

The three first
dilute and dirty
seemed in a manner
was scarce any of
blue, only the blue
inclined a little to

The fourth red
so much as the former
or no yellow, but
ned a little to yellow